

GLAST

The Gamma-ray Large Area Space Telescope

**Mission Activities and Issues for
Discussion
Users ~~Committee~~ Group Meeting
4-5 June 2007**

S. Ritz



Topics

- Overall project status, LAT, and GBM in separate presentations
- Focus on issues and activities since the February meeting
 - various activities
 - NRAO MOU and separate Process document
 - NOAO MOU draft status
 - SPD
 - SOOG
 - Fellows Program
 - GI Workshops
 - Symposium
 - open/upcoming questions for the GUG






Some Activities

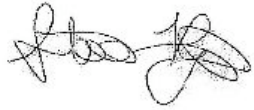
- Many GLAST Project activities, working issues, reviews, etc.
- Community inputs to Phase 1 monitored source list. Document circulated to GUG. LAT agreed to add the five recommended sources:
 - **BL LAC, OJ 287, 0235+163, 0716+714, 1510-089**
- Bi-weekly GLAST outreach telecon. Drafting science writers guide. Iterating mission messages. Working on science visualizations and other material with Goddard TV.
- [LAT-GBM science analysis cooperation agreement.]
- Talks at various conferences, workshops, colloquia,...
- AAS GI program message. HEAD announcement next.
- 12 June visit to General Dynamics planned with HQ personnel and Goddard management, including science pep talks.
- Majordomo GLAST news



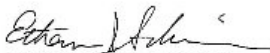
NRAO-GLAST

- **MOU signed!**


Fred K. Y. Lo, Director, NRAO


Steven M. Ritz, GLAST Project Scientist

Concurred:


Ethan J. Schreier, President, AUI


Frank R. Harnden, NASA Program Scientist

- **Press release drafted and in approval cycle**
- **Separate Joint Proposal Process document written, iterated, almost ready for release.**
 - outlines the process for review of the proposals, required content, etc. Based in part on existing agreements between NRAO and other observatories.
 - will post on GSSC site



NOAO-GLAST

- **Iterated draft agreement, adapted from NRAO-GLAST agreement**
- **Includes some existence-proof observations and science topics that motivate the suggested time allocations (~5% for most telescopes). Helpful inputs from Gino Tosti and others.**
- **Needs another iteration and then discussion at NOAO and the Users Groups.**



SPD

- Candidate release version, based on inputs from telecon
- Small number of changes:
 - GUC → GUG
 - future of SWG in 2.6
 - section 4: clearly stated default observing mode is Sky Survey, with expectation of time >70%
 - fixed 5.1.1 data products level definitions
 - large proposals: 4 instead of 5, status report instead of new proposal in subsequent years
 - typos fixed



Science Operations Oversight Group

- Flexibility of observatory => adjustable parameters affecting science.
 - e.g., instrument trigger parameters, GRB thresholds, earth limb avoidance parameters, etc.
- Expertise lies within the relevant elements (instruments, mission), so have those groups hold responsibility for configuration control of their respective parameters.
- Impacts of changes of these parameters reach across mission elements and the science community, therefore form the SOOG, which will
 - be informed about changes to science operations parameters
 - approve changes on a limited set of mission-level controlled parameters
 - review weekly performance and address relevant issues
- SOOG membership: Project Scientist & Deputies; LAT and GBM PI's or delegates; GUG chair or delegate; GSSC lead; MOC lead; LAT and GBM I(S)OC leads
- Develop internal mission element processes for SOOG matters.



SOOG

- First phone call 7 May, next one on 11 June
- Reviewed charge, membership. Discussed plans of the various mission elements.
- Candidate parameters for SOOG
 - **Spacecraft:** sky survey parameters, repoint dwell default, limb avoidance parameters, time conversion, sun avoidance parameters, max slew rates, alert messages, balancing priorities of messages. Life-preserving choices later in mission.
 - **LAT:** trigger parameters, onboard filter parameters, GRB algorithm parameters, repoint dwell time.
 - **GBM:** trigger parameters (energy channels, threshold sensitivities), anything affecting level 2 science requirements, deadtime/event, trigdat data contents, repoint recommendation parameters. Event categorization (burst, solar flare, etc.) is an instrument team responsibility, not a SOOG issue.
 - **Generally:** any hardware changes affecting science performance
- We agreed to start with onboard operating parameters. Ground processing will follow.
- **ACTIONS:** at the next meeting, each element will present the status of its internal CCB plans.



Fellows Program

- An excellent proposal outlining the program from CRESST, a consortium of University of Maryland College Park, University of Maryland Baltimore County, and USRA.
- Iterated proposal, circulated to HQ and mission. Almost ready to go.
- Would like to convene a subgroup of GUG to monitor and advise the Fellows Program
 - add some external advisors, too



GI workshops

- **Successful (and different) one-day workshops:**
 - **D.C. area at Goddard in January**
 - <http://glast.gsfc.nasa.gov/science/resources/workshop07/>
 - **Chicago area at Argonne in April**
 - https://www.hep.anl.gov/glast_workshop/index.html
 - **Los Angeles region at UCLA in May**
 - http://gamma1.astro.ucla.edu/glast_2007/
 - **Next one at Harvard on 21 June**
 - <http://glast.gsfc.nasa.gov/workshops/boston/>
- **Goals: spread the word about GLAST and GI opportunities, and to facilitate connections among local scientists interested in GLAST science topics. Invite feedback.**



Symposium

Quality and quantity of contributions exceeded expectations:

- ~275 abstracts received
- >333 registrants


PROCEEDINGS
COMPLETE and sent to
AIP!

- ~200 papers
- 610 large-format pages
- Great help from Sandy and fellow editors
- (Thanks, Sandy!
- Thanks, Chip and Peter!)

The screenshot shows a web browser window titled "The First GLAST Symposium". The address bar shows the URL <http://glast.gsfc.nasa.gov/science/symposium/2007/#>. The page content includes:

First GLAST Symposium

5-8 February 2007
Stanford University



- [Symposium Announcements](#)
- [Symposium Program](#)
- [Campus Map](#)
- **Special Note:** the maximum poster dimensions for this meeting are 32" wide by 48" tall.
- [Registrant List](#)
- [Registration](#)
- [Hotel Information](#)
- **Public Lecture by Andrei Linde:** "The Origin and Fate of the Universe", 5 February
- **Planetarium Show:** "Black Holes: The Other Side of Infinity", 7 February
- Meeting Banquet: Tuesday, February 6th
- **Abstract Submission** - Deadline: Friday, December 15th (Late abstracts will be accepted until Friday, 22 December)
- **Please Note:** Important Dates
- [Proceedings Information for Authors](#)
- [Satellite Meeting Information](#)
- [Download the Symposium Poster \(PDF\), High-Res \(13 MB\)](#)
- [Signup for Announcements and Information](#)
- [Organization](#)
- [Contact](#)



Some Items to Discuss

- Suggestions for getting the word out about NRAO-GLAST opportunity
- Dispensation of Cycle 1 proposals that are partially non-compliant
 - most anticipated issue is reference to use of Phase 1 photon event candidates during Cycle 1 (in collaboration with the LAT team)
 - options:
 - » a) turn back the proposal for correction
 - » b) reject the proposal
 - » c) note the violations and instruct peer review panel to evaluate the proposal ignoring those features
 - suggest option c). Discussion, please!
- Fellows program subgroup
- Inputs on schedule for first public release of high-level science tools
- ...